From: Separation Science <elearning.solutions@sepscience.com>
Sent: Friday, June 29, 2012 1:09 PM
To: Hanchett, James (DPH)
Subject: Today in Separation Science - Latest Issue of HPLC Solutions

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John Dolan's Update HPLC Solutions

Separation Science e-Learning

Issue 97
Late Elution
A reader asks, "I have a nice isocratic method for compound A, which elutes at about 8 min, so I can inject a new sample every 10 min. Occasionally, however, my samples contain another compound B that comes out at about 40 min. I have no way of knowing in advance if B will be present or not. Some people in the lab are telling me that I need to wait 40 min for every sample to be sure that this peak is not present before I can inject again. This seems like a lot of wasted time. Can't I just reinject the sample when B shows up in the wrong place in its chromatogram? After all, the B peak is pretty broad and easy to recognize."
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Issue 96
Premix
A reader asked me when it is appropriate or necessary to premix mobile phases when on-line mixing is available. For example, if a gradient is run from 95/5 buffer/organic (5% B) to 5/95 buffer/organic (95% B), should one bottle contain 95% buffer and the other 5% buffer in the organic solvent, or should one bottle contain buffer and the other the organic? In either case, the HPLC system can be programmed to give exactly the same mobile phase composition.
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Issue 95
UV Conditions
I recently had an "Ask the Doctor" question that went something like this: "I need to report impurities for my product at levels of 0.1-0.5% of the main ingredient. Occasionally when I show my folks my chromatograms, I'm accused of making the sample too concentrated, because the product peak is >2000 mAU. They tell me that the detector is saturated, so the area-% for the impurities will not be accurate. Can you comment on this?"
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- Liquid Chromatography
- Gas Chromatography
- Hyphenated Techniques
- Sample Prep
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ASK THE DOCTOR
If you have an analytical question for John Dolan...

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